

United States Patent [19]

Nakayama et al.

[11] Patent Number: 5,023,799

[45] Date of Patent: Jun. 11, 1991

[54] VEHICULAR TRAVELING DIRECTION MEASURING SYSTEM

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[21] Appl. No.: 474,922

[22] Filed: Feb. 6, 1990

[30] Foreign Application Priority Data

Feb. 6, 1989 [JP] Japan 1-27059

[51] Int. Cl. 5 G01C 17/38

[52] U.S. Cl. 364/449; 364/454;

364/457; 364/571.05; 33/356

[58] Field of Search 364/443, 449, 453, 454, 364/457, 571.05; 33/356, 357, 355 R; 73/178 R

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[57] ABSTRACT

A system measures a traveling direction of a vehicle based on a direction toward a coordinate position defined by outputs of a geomagnetic sensor from a first coordinate position of a center of a corresponding output circle. The system utilizes a preliminary coordinate position as a preliminarily corrected value of the first coordinate position, a first value indicative of accuracy of the preliminary coordinate position and a second value which is variable depending on a variation in a magnetization level on a vehicle body. The system derives a finally corrected value of the first coordinate position based on the preliminary coordinate position and a latest value of the finally corrected value which has been derived in a prior execution of the system, by changing a rate which determines a point of the current finally corrected value between the latest finally corrected value and the preliminary coordinate position.

22 Claims, 16 Drawing Sheets

